

DERWENT-ACC-NO: 1994-313861

DERWENT-WEEK: 200171

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TITLE: Polyacetal resin compsn. with  
improved impact resistance  
- contains modified polyolefin resin,  
esterification  
catalyst and filler, etc.

PATENT-ASSIGNEE: POLYPLASTICS KK[POPL]

PRIORITY-DATA: 1993JP-0027675 (February 17, 1993)

PATENT-FAMILY:

| PUB-NO        | PAGES       | PUB-DATE         | MAIN-IPC |
|---------------|-------------|------------------|----------|
| JP 06240105 A |             | August 30, 1994  | N/A      |
| 010           | C08L 059/00 |                  |          |
| JP 3224158 B2 |             | October 29, 2001 | N/A      |
| 010           | C08L 059/00 |                  |          |

APPLICATION-DATA:

| PUB-NO         | APPL-DATE | APPL-DESCRIPTOR   | APPL-NO    |
|----------------|-----------|-------------------|------------|
| JP 06240105A   |           | N/A               |            |
| 1993JP-0027675 |           | February 17, 1993 |            |
| JP 3224158B2   |           | N/A               |            |
| 1993JP-0027675 |           | February 17, 1993 |            |
| JP 3224158B2   |           | Previous Publ.    | JP 6240105 |
| N/A            |           |                   |            |

INT-CL (IPC): C08K003/00, C08K007/00 , C08L023/26 ,  
C08L059/00 ,  
C08L023:26 , C08L059/00

ABSTRACTED-PUB-NO: JP 06240105A

BASIC-ABSTRACT:

The compsn. comprises 100 pts.wt. of (A) a thermoplastic polyacetal resin,  
1-100 pts.wt. (B) acid anhydride-modified polyolefin type

*polyacetal  
anhydride  
polyolefin  
filler*

resin, 0.01-5 pts.wt.

(C) esterification catalyst and 0-150 pts.wt. of (D) fibrous filler, powder and granular material, plate filler, and/or hollow filler.

USE/ADVANTAGE - The resin compsn. improves affinity between resin (A) and (B) and improves impact resistance without inhibiting the mechanical and thermal characteristics of the polyacetal resin.

In an example, 100 pts.wt. polyacetal resin, 5 pts.wt. maleic anhydride-modified polypropylene prepd. by modifying 100 pts.wt. polypropylene resin with 10 pts.wt. maleic anhydride, and 0.2 pts.wt. dimethylaminopyridine were mixed at 190 deg.C to obtain pellets. The pellets were moulded to obtain a test piece. The obtd. test piece had an Izod impact strength of 11.5 kgf cm/cm, compared with 6.5 kgfcm/cm for a control made of polyacetal resin alone. The test piece did not peel when a cellophane tape was adhered on the test piece and peeled.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: POLYACETAL RESIN COMPOSITION IMPROVE IMPACT RESISTANCE CONTAIN  
MODIFIED POLYOLEFIN RESIN ESTERIFICATION  
CATALYST FILL

DERWENT-CLASS: A17 A25

CPI-CODES: A05-H02A; A07-A04E; A08-R01; A09-A05A; A10-E07; A10-E23;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; P0248 P0226 D01 F24 ; M9999 M2186 ; L9999 L2391 ;  
L9999 L2186\*R  
; H0226 ; S9999 S1547 S1536 ; S9999 S1434

Polymer Index [1.2]

017 ; ND06 ; B9999 B4159 B4091 B3838 B3747 ; K9449

Polymer Index [1.3]

017 ; H0226